

## Submittal Data

PROJECT:	UNIT TAG:	QUANTITY:	
-	TYPE OF SERVICE:		
REPRESENTATIVE:	SUBMITTED BY:	DATE:	
ENGINEER:	APPROVED BY:	DATE:	
CONTRACTOR:	ORDER NO .:	 DATE:	

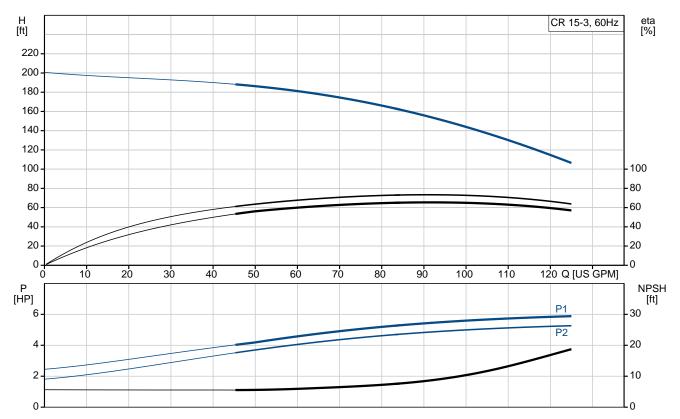


## CR 15-3 A-GJ-A-E-HQQE

Vertical, multistage centrifugal pump with suction and discharge ports on the same level. The pump head and base are in cast iron - all other wetted parts are in stainless steel (EN 1.4301)

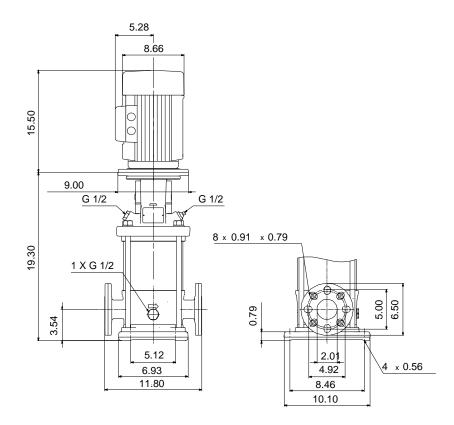
Note! Product picture may differ from actual product

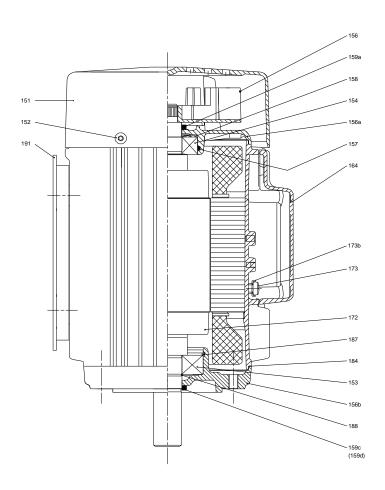
Conditions	of Service	Pump Data		Moto	or Data
Flow:		Max pressure at stated temp:	232 psi / 250 °F	Rated power - P2:	7.5 HP
Head:		Liquid temperature range:	-4 248 °F	Rated voltage:	208-230YY/460Y V
Efficiency:		Maximum ambient temperature:	140 °F	Mains frequency:	60 Hz
Liquid:	Water	Approvals:	CURUS	Enclosure class:	55 Dust/Jetting
Temperature:	68 °F	Shaft seal:	HQQE	Insulation class:	F
NPSH required:	ft	Product number:	96890007	Motor protection:	PTC
Viscosity:				Motor type:	132DA
Specific Gravity:	1.000			Motor_efficiency:	89.5 %



## Submittal Data







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141	αι	CI	10	13	

Base:

Impeller:

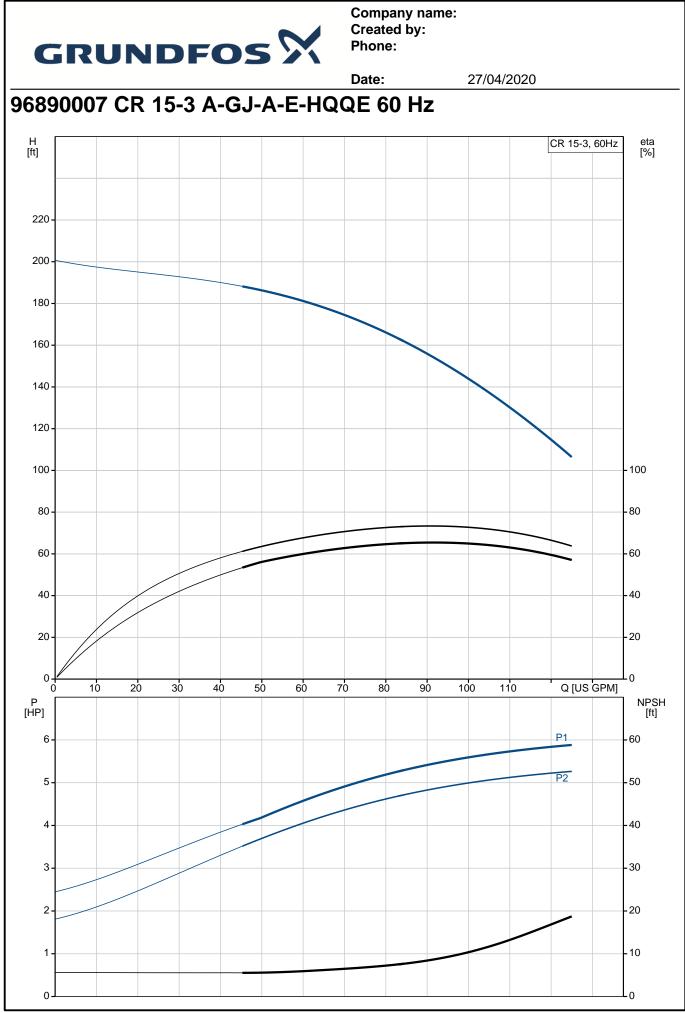
Material code: A Code for rubber: E

Cast iron EN 1561 EN-GJL-200 ASTM A48-25B Stainless steel AISI 304 EN 1.4301 A

type   Description     1   CR 15-3 A-GJ-A-E-HOQE     Image: Comparison of the state	GRUNDFO	os X	Company name: Created by: Phone:	
Image: CR 15-3 A-GJ-A-E-HQQE   Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). The pump head and base are in satinfees steel. A cartridge shaft seal ensures high reliability, safe handling, and easy access and service. Power transmission is via a rigid split coupling. Pipe connection is vi combined ANSI-JS tanges.   The pump is fitted with a 3-phase, fan-cooled asynchronous motor.   Liquid temperature range: 4248 °F   Selected liquid tomperature: 68 °F   Density: 62.29 lb/fe   Technical:   Pump speed on which pump data are based: 3461 rpm   Rated flow: 90.3 US GPM   Rated head: 152.9 th   Actual impeller diameter: 4248 °F   Density: 62.29 lb/fe   Code for shaft seal: HOQE   Approvals on nameplate: CRUS   Curve tolerance: ISO9906:2012 3B <th></th> <th></th> <th>Date:</th> <th>27/04/2020</th>			Date:	27/04/2020
Product No: 96890007   Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). The pump head and base are in cast fron – all other wetted parts are in stainless steel. A carrindge shaft seal ensures high reliability, safe handing, and easy access and service. Power transmission is via a rigid split coupling. Pipe connection is vi combined ANSI-JIS flanges.   The pump is fitted with a 3-phase, fan-cooled asynchronous motor.   Liquid:   Pump log liquid:   Warren and the second asynchronous motor.   Pump seed on which pump data are based:   Yetnotal (iquid temperature: 68 °F   Density: 62.29 toff?   Technical   Pump seed on which pump data are based: 3461 rpm   Rated flow: 90.3 US GPM   Rated flow: 152.9 tf   Actual impelier diameter: 4.13 in   Pump obstaft seal: HOQE   Approvals on nameplate: CURUS   Curve tolerance: Cast iron   EN 1561 EN-GJL-200 ASTM A48-25B   Impelier: EN	y. Description			
Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). The pump head and base are in cast iron – all other wetted parts are in stainless steel. A cartridge shaft seal ensures high reliability, sale handling, and easy access and service. Power transmission is via a rigid split coupling. Pipe connection is vi combined ANSI-JS finanges.   The pump is fitted with a 3-phase, fan-cooled asynchronous motor.   Liquid imperature: Water   Liquid temperature: 68 °F   Density: 62.29 bi/ft <sup>3</sup> Technical: Pump speed on which pump data are based: 3461 rpm   Rated head: 152.9 ft   Actual impeller diameter: 4.13 in   Pump solitance: ISO906.2012 3B   Materials: HQQE   Approvals on nameplate: Curve tolerance:   List 1561 Enclose: Stainless steel   Base: Stainless steel   Enclose: Stainless steel   End tobe: Maximum operating ressure:   Maximum ambient temperature	CR 15-3 A-GJ-A-E-HQQE			
Vertical, multistage centrifugal pump with inlet and outlet ports on same the level (inline). The pump head and base are in cast iron – all other wetted parts are in stainless steel. A cartridge shaft seal ensures high reliability, sale handling, and easy access and service. Power transmission is via a rigid split coupling. Pipe connection is vi combined ANSI-JS finanges.   The pump is fitted with a 3-phase, fan-cooled asynchronous motor.   Liquid imperature: Water   Liquid temperature: 68 °F   Density: 62.29 bi/ft <sup>3</sup> Technical: Pump speed on which pump data are based: 3461 rpm   Rated head: 152.9 ft   Actual impeller diameter: 4.13 in   Pump solitance: ISO906.2012 3B   Materials: HQQE   Approvals on nameplate: Curve tolerance:   List 1561 Enclose: Stainless steel   Base: Stainless steel   Enclose: Stainless steel   End tobe: Maximum operating ressure:   Maximum ambient temperature				
base are in cast iron – all other wetted parts are in stainless steel. A cartridge shaft seal ensures high reliability, safe handling, and easy access and service. Power transmission is via a rigid split coupling. Pipe connection is vi combined ANSI-JIS flanges. The pump is fitted with a 3-phase, fan-cooled asynchronous motor. Liquid: Pumped liquid: Water Liquid temperature range: 4248 °F Selected liquid temperature: 68 °F Density: 62.29 lb/ff* Technical: Pump speed on which pump data are based: 3461 rpm Rated flow: 0.3 US GPM Rated head: 152.9 ft Actual impeller diameter: 4.13 in Pump orientation: Vertical Shaft seal arrangement: Single Code for shaft seal: HQQE Approvals on nameplate: CURUS Curve tolerance: ISO9906:2012 3B Materials: Base: Cast iron EN 1561 EN-GJL-200 ASTM A48-25B Impeller: Stainless steel EN 1.4301 AISI 304 Bearing: SIC Installation: Maximum ambient temperature: 40 °F Maximum operating pressure: 232.06 psi Max pressure at stated femp: 232.29 psi / 250 °F 232.29 js / 4 °F Type of connection: DN 50 Size of outlet connection: DN 50 Pressure rating for connection: PN 25 Flange rating inde: 301b	Product No.: 96890007			
Liquid: Water   Liquid temperature range: 4248 °F   Selected liquid temperature: 68 °F   Density: 62.29 lb/f <sup>a</sup> Technical: Pump speed on which pump data are based:   Pump speed on which pump data are based: 3461 rpm   Rated flow: 90.3 US GPM   Rated head: 152.9 ft   Actual impeller diameter: 4.13 in   Pump orientation: Vertical   Shaft seal arrangement: Single   Code for shaft seal: HQQE   Approvals on nameplate: CURUS   Curve tolerance: ISO9906:2012 3B   Materials: Base:   Base: Cast iron   EN 1661 EN-GJL-200   ASTM A48-25B   Impeller: Stainless steel   EN 1.4301   AlSI 304   Bearing: SIC   Installation:   Maximum ambient temperature: 140 °F   Maximum operating pressure: 322 psi / 250 °F   232 psi / 250 °F 232 psi / 250 °F   232 psi / 250 °F 232 psi / 250 °F   Size of inlet connection: DN	base are in cast iron – all other v safe handling, and easy access	vetted parts are in stai	nless steel. A cartrido	pe shaft seal ensures high reliability.
Punped liquid:WaterLiquid temperature range:-4248 °FSelected liquid temperature:68 °FDensity:62.29 lb/ft³Technical:Pump speed on which pump data are based:3461 rpmRated flow:90.3 US GPMRated head:152.9 ftActual impeller diameter:4.13 inPump orientation:VerticalShaft seal arrangement:SingleCode for shaft seal:HQQEApprovals on nameplate:CURUSCurve tolerance:ISO9906:2012 3BMaterials:EBase:Cast ironE N 1561 EN-GJL-200ASTM A48-25BImpeller:Stainless steelE N 1.531 304Bearing:SICInstallation:Maximum ambient temperature:140 °FMaximum ambient temperature:232 06 psiMax pressure at stated temp:232 psi / 250 °F232 psi / -4 °FType of connection:DN 50Size of inlet connection:DN 50Size of outlet connection:DN 50Pressure rating for connection:PN 25Flange Failing	The pump is fitted with a 3-phas	e, fan-cooled asynchro	nous motor.	
Pump speed on which pump data are based: 3461 rpm   Rated flow: 90.3 US GPM   Rated head: 152.9 ft   Actual impeller diameter: 4.13 in   Pump orientation: Vertical   Shaft seal arrangement: Single   Code for shaft seal: HQQE   Approvals on nameplate: CURUS   Curve tolerance: ISO9906:2012 3B   Materials: Base:   Base: Cast iron   EN 1561 EN-GJL-200   ASTM A48-25B   Impeller: Stainless steel   EN 1.4301   AISI 304   Bearing: SIC   Installation:   Maximum ambient temperature: 140 °F   Maximum operating pressure: 232.06 psi   Max pressure at stated temp: 232 psi / 250 °F   232 psi / -4 °F 7ype of connection:   ANSI / JIS Size of inlet connection:   Size of outlet connection: DN 50   Size of outlet connection: DN 50   Size of outlet connection: PN 25   Flange rating inlet: 300 lb	Pumped liquid: Liquid temperature range: Selected liquid temperature:	-4 248 °F 68 °F		
Curve tolerance: ISO9906:2012 3B   Materials: Base: Cast iron   Base: Cast iron   EN 1561 EN-GJL-200 ASTM A48-25B   Impeller: Stainless steel   EN 1.4301 AISI 304   Bearing: SIC   Installation: Maximum ambient temperature:   Maximum operating pressure: 232.06 psi   Max pressure at stated temp: 232 psi / 250 °F   232 psi / -4 °F Type of connection:   Size of inlet connection: DN 50   Pressure rating for connection: DN 50   Pressure rating inlet: 300 lb	Pump speed on which pump dat Rated flow: Rated head: Actual impeller diameter: Pump orientation: Shaft seal arrangement: Code for shaft seal:	90.3 US GPM 152.9 ft 4.13 in Vertical Single	m	
Base:Cast iron EN 1561 EN-GJL-200 ASTM A48-25BImpeller:Stainless steel EN 1.4301 AISI 304Bearing:SICInstallation: Maximum operating pressure:232.06 psi 232 psi / 250 °F 232 psi / -4 °FMax pressure at stated temp:232 psi / 250 °F 232 psi / -4 °FType of connection: Size of inlet connection:DN 50 DN 50Size of outlet connection: Pressure rating for connection:DN 50 PN 25 300 lb				
Base:Cast iron EN 1561 EN-GJL-200 ASTM A48-25BImpeller:Stainless steel EN 1.4301 AISI 304Bearing:SICInstallation: Maximum ambient temperature:140 °F 232.06 psi 232 psi / 250 °F 232 psi / -4 °FMax pressure at stated temp:232.06 psi 232 psi / -4 °FType of connection: Size of inlet connection:DN 50 DN 50Size of outlet connection: Pressure rating for connection:DN 50 PN 25 S00 lb	Materials:			
EN 1.4301 AISI 304Bearing:SICInstallation: Maximum ambient temperature:140 °F 232.06 psi 232 psi / 250 °F 232 psi / -4 °FMax pressure at stated temp:232 psi / 250 °F 232 psi / -4 °FType of connection: Size of inlet connection:DN 50 DN 50Size of outlet connection: Pressure rating for connection:DN 50 PN 25 S00 lb	Base:	EN 1561 EN-GJL-200 ASTM A48-25B	)	
Installation: Maximum ambient temperature: 140 °F Maximum operating pressure: 232.06 psi Max pressure at stated temp: 232 psi / 250 °F 232 psi / -4 °F Type of connection: ANSI / JIS Size of inlet connection: DN 50 Size of outlet connection: DN 50 Pressure rating for connection: PN 25 Flange rating inlet: 300 lb		EN 1.4301 AISI 304		
Maximum ambient temperature:140 °FMaximum operating pressure:232.06 psiMax pressure at stated temp:232 psi / 250 °FZ32 psi / -4 °F232 psi / -4 °FType of connection:ANSI / JISSize of inlet connection:DN 50Size of outlet connection:DN 50Pressure rating for connection:PN 25Flange rating inlet:300 lb		310		
Maximum operating pressure:232.06 psiMax pressure at stated temp:232 psi / 250 °F232 psi / -4 °F232 psi / -4 °FType of connection:ANSI / JISSize of inlet connection:DN 50Size of outlet connection:DN 50Pressure rating for connection:PN 25Flange rating inlet:300 lb		140 °E		
Max pressure at stated temp:232 psi / 250 °F 232 psi / -4 °FType of connection:ANSI / JISSize of inlet connection:DN 50Size of outlet connection:DN 50Pressure rating for connection:PN 25Flange rating inlet:300 lb				
Size of inlet connection:DN 50Size of outlet connection:DN 50Pressure rating for connection:PN 25Flange rating inlet:300 lb	Max pressure at stated temp:	232 psi / 250 °F 232 psi / -4 °F		
Size of outlet connection:DN 50Pressure rating for connection:PN 25Flange rating inlet:300 lb				
Pressure rating for connection:PN 25Flange rating inlet:300 lb				
Flange rating inlet: 300 lb				
0	Flange size for motor:	213TC		
Electrical data:				



	Date:	27/04/2020
Description		
Motor standard:	NEMA	
Motor type:	132DA	
IE Efficiency class:	NEMA Premium / IE3 60Hz	
Rated power - P2:	7.5 HP	
Power (P2) required by pump:	7.5 HP	
Mains frequency:	60 Hz	
Rated voltage:	3 x 208-230YY/460Y V	
Service factor:	1.15	
Rated current:	19,5-18,1/9,09 A	
Starting current:	1020-1480 %	
Cos phi - power factor:	0.89-0.86	
Rated speed:	3490-3520 rpm	
Efficiency:	IE3 89,5%	
Motor efficiency at full load:	89.5 %	
Motor efficiency at 3/4 load:	89.7 %	
Motor efficiency at 1/2 load:	88.3 %	
Number of poles:	2	
Enclosure class (IEC 34-5):	55 Dust/Jetting	
Insulation class (IEC 85):	F	
Motor No:	85904392	
Controls:		
Frequency converter:	NONE	
Others:		
DOE Pump Energy Index CL:	0.91	
Net weight:	190 lb	
Gross weight:	207 lb	
Shipping volume:	8.26 ft <sup>3</sup>	
Country of origin:	US	
Custom tariff no.:	8413.70.2040	

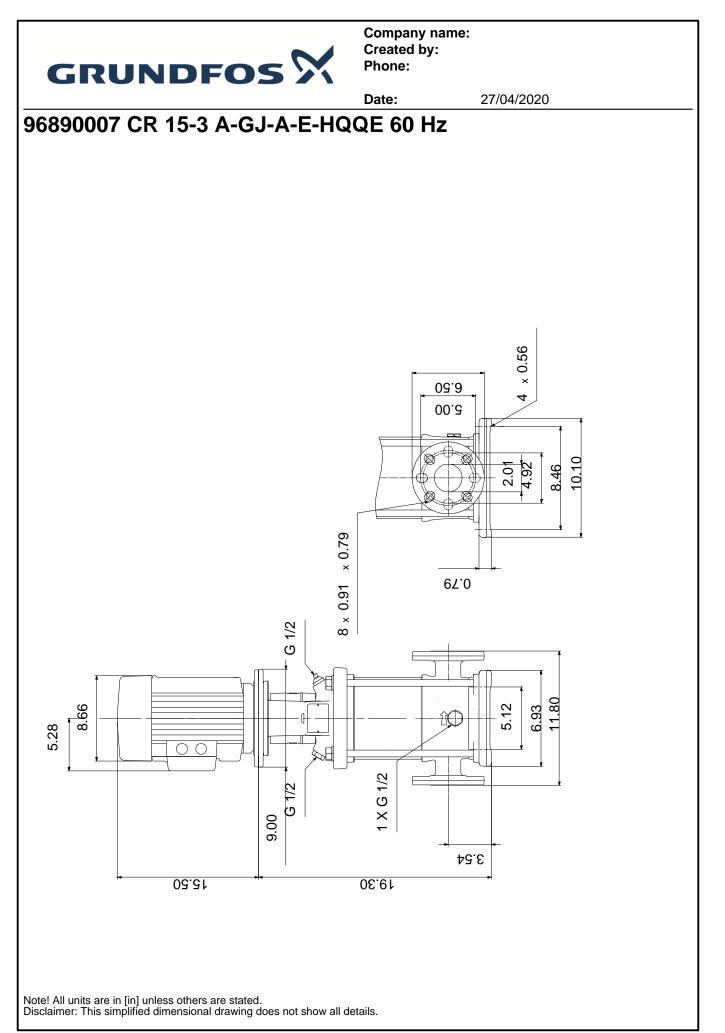




		Date:	2170	4/2020		
Description	Value	H [ft]			CR 15-3, 60Hz	
General information:		-  -				1
Product name:	CR 15-3 A-GJ-A-E-HQQE	220 -				
Product No:	96890007	200 -				
EAN number:	5700312893622					
EAN humber.	5700312893622	180 -				
Technical:	5700312693022	160 -				
Pump speed on which pump data are		180 -				
based:	3461 rpm	140 -				
Rated flow:	90.3 US GPM	120 -				
Rated head:	152.9 ft					
Maximum head:	200.5 ft	100 -				- 100
Actual impeller diameter:	4.13 in	80 -				- 80
Stages:	3	00				- 00
Impellers:	3	60 -				- 60
Number of reduced-diameter impellers:	0					4.0
Low NPSH:	N	40 -				- 40
Pump orientation:	Vertical	20 -				- 20
Shaft seal arrangement:	Single	- //				
Code for shaft seal:	HQQE	0 <u>//</u>	20 40 60	80	100 Q [US GPM]	Lo
Approvals on nameplate:	CURUS	P [	20 +0 00			] N
Curve tolerance:	ISO9906:2012 3B	[HP]			P1	L
Pump version:	A					Γ
Model:	A	5 -			P2	- 50
Cooling:	TEFC					40
-		4 -				- 40
Materials:	On at image	3				- 30
Base:	Cast iron	_ /				
	EN 1561 EN-GJL-200	2-				- 20
	ASTM A48-25B	_ 1_				- 10
Impeller:	Stainless steel	' <b> </b>				``
	EN 1.4301	0				L <sub>0</sub>
	AISI 304					
Material code:	А					
Code for rubber:	E					
Bearing:	SIC					
Installation:						
Maximum ambient temperature:	140 °F					
Maximum operating pressure:	232.06 psi					
Max pressure at stated temp:	232 psi / 250 °F					
	232 psi / -4 °F					
Type of connection:	ANSI / JIS					
Size of inlet connection:	DN 50					
Size of outlet connection:	DN 50					
Pressure rating for connection:	PN 25					
Flange rating inlet:	300 lb					
Flange size for motor:	213TC					
Connect code:	GJ					
Liquid:	00					
-	Wator					
Pumped liquid:	Water					
Liquid temperature range:	-4 248 °F					
Selected liquid temperature:	68 °F					
Density:	62.29 lb/ft <sup>3</sup>					
Electrical data:						
Motor standard:	NEMA					
Motor type:	132DA					
IE Efficiency class:	NEMA Premium / IE3 60Hz					
Rated power - P2:	7.5 HP					
Power (P2) required by pump:	7.5 HP					



		Date:	27/04/2020
Description	Value		
Mains frequency:	60 Hz	_	
Rated voltage:	3 x 208-230YY/460Y V		
Service factor:	1.15		
Rated current:	19,5-18,1/9,09 A		
Starting current:	1020-1480 %		
Load current:	22,4-20,8/10,4 A		
Cos phi - power factor:	0.89-0.86		
Rated speed:	3490-3520 rpm		
Efficiency:	IE3 89,5%		
Motor efficiency at full load:	89.5 %		
Motor efficiency at 3/4 load:	89.7 %		
Motor efficiency at 1/2 load:	88.3 %		
Number of poles:	2		
Enclosure class (IEC 34-5):	55 Dust/Jetting		
Insulation class (IEC 85):	F		
Motor protec:	PTC		
Motor No:	85904392		
Controls:			
Frequency converter:	NONE		
Others:			
DOE Pump Energy Index CL:	0.91		
Net weight:	190 lb		
Gross weight:	207 lb		
Shipping volume:	8.26 ft <sup>3</sup>		
Country of origin:	US		
Custom tariff no.:	8413.70.2040		





Date: 27/04/2020 96890007 CR 15-3 A-GJ-A-E-HQQE 60 Hz WARNING  $\bigwedge$ MOTOR MUST BE GROUNDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND LOCAL CODES BY TRAINED PERSONNEL TO PREVENT SERIOUS ELECTRICAL SHOCKS. TO SERVICE MOTOR, DISCONNECT POWER SOURCE FROM MOTOR AND ANY ACCESSORY DEVICES AND ALLOW MOTOR TO COME TO A COMPLETE STAND STILL. HIGH VOLTAGE LOW VOLTAGE 60Hz: 460V 60Hz. 208-230V 50Hz: 400V 5 6 4 5⊜ 6⊜ 4⊜ 9 8⊜ 7⊜ 9 7⊜ 8 2 3⊜ 1⊜ 3⊜ 2⊜ 1⊜ 96553852 L2 L1 L3 L3 L2 L1 INTERCHANGE ANY TWO LINE WIRES TO REVERSE ROTATION THERMOSTAT LEADS 🖨 J 🖨 J (WHEN PROVIDED)

Note! All units are in [in] unless others are stated.